

# Tides, Sunrise and Sunset for Nisqually Delta, December 2017

High Tide

Low Tide

|        | Height-Time |        |         | Height-Time |       |         | Height-Time |       |         | Height-Time |        |         | Sun Rise and Set | General Information   |
|--------|-------------|--------|---------|-------------|-------|---------|-------------|-------|---------|-------------|--------|---------|------------------|---|
| 1-Dec  | H           | 12'1"  | 3:52AM  | L           | 5'7"  | 9:19AM  | H           | 14'5" | 2:54PM  | L           | -1'0"  | 9:57PM  | 07:36-16:22      | <b>Tides 10 feet or below</b><br>Lots of mud visible. Good for herons, shorebirds, and dabbling ducks.                            |
| 2-Dec  | H           | 13'3"  | 4:44AM  | L           | 6'1"  | 10:12AM | H           | 14'7" | 3:32PM  | L           | -2'2"  | 10:37PM | 07:37-16:22      |   |
| 3-Dec  | H           | 14'2"  | 5:34AM  | L           | 6'6"  | 11:04AM | H           | 14'7" | 4:12PM  | L           | -3'0"  | 11:20PM | 07:38-16:22      |   |
| 4-Dec  | H           | 14'10" | 6:23AM  | L           | 6'9"  | 11:57AM | H           | 14'5" | 4:56PM  | -           | -      | -       | 07:40-16:21      |   |
| 5-Dec  | L           | -3'5"  | 12:05AM | H           | 15'3" | 7:13AM  | L           | 6'11" | 12:51PM | H           | 13'11" | 5:44PM  | 07:41-16:21      |   |
| 6-Dec  | L           | -3'3"  | 12:52AM | H           | 15'5" | 8:04AM  | L           | 6'11" | 1:49PM  | H           | 13'2"  | 6:36PM  | 07:42-16:21      | <b>Tide 10-11 feet</b><br>Tides are covering most of the mudflats around the boardwalk. Water level is good for dabbling ducks.   |
| 7-Dec  | L           | -2'7"  | 1:41AM  | H           | 15'5" | 8:55AM  | L           | 6'8"  | 2:52PM  | H           | 12'2"  | 7:35PM  | 07:43-16:21      |   |
| 8-Dec  | L           | -1'7"  | 2:32AM  | H           | 15'3" | 9:47AM  | L           | 6'2"  | 4:01PM  | H           | 11'1"  | 8:43PM  | 07:44-16:20      |   |
| 9-Dec  | L           | -0'2"  | 3:25AM  | H           | 15'0" | 10:40AM | L           | 5'5"  | 5:16PM  | H           | 10'2"  | 10:01PM | 07:45-16:20      |   |
| 10-Dec | L           | 1'4"   | 4:23AM  | H           | 14'9" | 11:32AM | L           | 4'4"  | 6:29PM  | H           | 9'7"   | 11:34PM | 07:46-16:20      |   |
| 11-Dec | L           | 3'0"   | 5:27AM  | H           | 14'6" | 12:22PM | L           | 3'1"  | 7:31PM  | -           | -      | -       | 07:47-16:20      | <b>Tides 11-13 feet</b><br>Some woody debris still visible on the mudflat but water deeper. Better for diving ducks and seabirds. |
| 12-Dec | H           | 9'9"   | 1:15AM  | L           | 4'5"  | 6:38AM  | H           | 14'3" | 1:09PM  | L           | 1'11"  | 8:22PM  | 07:48-16:20      |   |
| 13-Dec | H           | 10'7"  | 2:46AM  | L           | 5'6"  | 7:51AM  | H           | 14'0" | 1:50PM  | L           | 0'11"  | 9:05PM  | 07:48-16:21      |   |
| 14-Dec | H           | 11'8"  | 3:55AM  | L           | 6'3"  | 8:59AM  | H           | 13'8" | 2:28PM  | L           | 0'1"   | 9:41PM  | 07:49-16:21      |   |
| 15-Dec | H           | 12'7"  | 4:50AM  | L           | 6'10" | 9:58AM  | H           | 13'4" | 3:02PM  | L           | -0'5"  | 10:13PM | 07:50-16:21      |   |
| 16-Dec | H           | 13'4"  | 5:34AM  | L           | 7'2"  | 10:48AM | H           | 13'0" | 3:35PM  | L           | -0'10" | 10:44PM | 07:51-16:21      | <b>Tides 13 feet and up</b><br>Lots of water around the boardwalk. Good for diving birds.   |
| 17-Dec | H           | 13'10" | 6:10AM  | L           | 7'5"  | 11:32AM | H           | 12'9" | 4:08PM  | L           | -1'1"  | 11:15PM | 07:51-16:22      |   |
| 18-Dec | H           | 14'1"  | 6:42AM  | L           | 7'7"  | 12:12PM | H           | 12'5" | 4:42PM  | L           | -1'2"  | 11:47PM | 07:52-16:22      |   |
| 19-Dec | H           | 14'4"  | 7:10AM  | L           | 7'7"  | 12:50PM | H           | 12'1" | 5:17PM  | -           | -      | -       | 07:53-16:22      |   |
| 20-Dec | L           | -1'1"  | 12:21AM | H           | 14'6" | 7:39AM  | L           | 7'6"  | 1:28PM  | H           | 11'8"  | 5:55PM  | 07:53-16:23      |   |
| 21-Dec | L           | -0'11" | 12:56AM | H           | 14'7" | 8:10AM  | L           | 7'3"  | 2:08PM  | H           | 11'3"  | 6:35PM  | 07:54-16:23      | <b>NOTE: Tide conditions can vary depending on weather conditions.</b>  |
| 22-Dec | L           | -0'6"  | 1:34AM  | H           | 14'7" | 8:44AM  | L           | 7'0"  | 2:51PM  | H           | 10'9"  | 7:19PM  | 07:54-16:24      |   |
| 23-Dec | L           | 0'0"   | 2:13AM  | H           | 14'7" | 9:21AM  | L           | 6'6"  | 3:38PM  | H           | 10'2"  | 8:11PM  | 07:55-16:24      |   |
| 24-Dec | L           | 0'11"  | 2:54AM  | H           | 14'6" | 9:59AM  | L           | 5'11" | 4:30PM  | H           | 9'7"   | 9:13PM  | 07:55-16:25      |   |
| 25-Dec | L           | 2'0"   | 3:39AM  | H           | 14'5" | 10:39AM | L           | 5'0"  | 5:25PM  | H           | 9'3"   | 10:28PM | 07:55-16:26      |   |
| 26-Dec | L           | 3'3"   | 4:29AM  | H           | 14'4" | 11:21AM | L           | 3'11" | 6:20PM  | H           | 9'3"   | 11:54PM | 07:56-16:26      |   |
| 27-Dec | L           | 4'6"   | 5:28AM  | H           | 14'4" | 12:03PM | L           | 2'7"  | 7:11PM  | -           | -      | -       | 07:56-16:27      |   |
| 28-Dec | H           | 9'11"  | 1:22AM  | L           | 5'8"  | 6:36AM  | H           | 14'4" | 12:46PM | L           | 1'1"   | 8:00PM  | 07:56-16:28      |   |
| 29-Dec | H           | 11'1"  | 2:43AM  | L           | 6'7"  | 7:47AM  | H           | 14'5" | 1:30PM  | L           | -0'4"  | 8:46PM  | 07:56-16:29      |   |
| 30-Dec | H           | 12'4"  | 3:49AM  | L           | 7'1"  | 8:55AM  | H           | 14'7" | 2:16PM  | L           | -1'8"  | 9:31PM  | 07:56-16:30      |   |
| 31-Dec | H           | 13'7"  | 4:43AM  | L           | 7'4"  | 9:56AM  | H           | 14'8" | 3:02PM  | L           | -2'9"  | 10:17PM | 07:56-16:30      |   |

This information can be found at <http://www.protides.com/washington>